

The diagram illustrates a mechanical arm assembly with the following components and features:

- 1**: A curved line indicating a range of motion or a specific path.
- 2**: A joint or connection point between the upper arm and the lower arm.
- 3**: A component of the lower arm.
- 4**: A component of the lower arm, possibly a wrist or hand assembly.
- 6**: A component at the end of the arm, possibly a gripper or a tool.
- 21**: A joint or connection point on the upper arm.
- 31**: A joint or connection point on the upper arm.
- 41**: A joint or connection point on the lower arm.
- 51**: A component at the end of the arm, possibly a gripper or a tool.
- 52**: A component of the upper arm.
- 521**: A joint or connection point on the upper arm.
- 522**: A joint or connection point on the upper arm.
- 61**: A component of the lower arm.
- 91**: A component at the end of the arm, possibly a gripper or a tool.

Angular measurements are indicated by:

- $\alpha$  (alpha): An angle between two components of the lower arm.
- $\beta$  (beta): An angle between two components of the lower arm.



FIG. 3

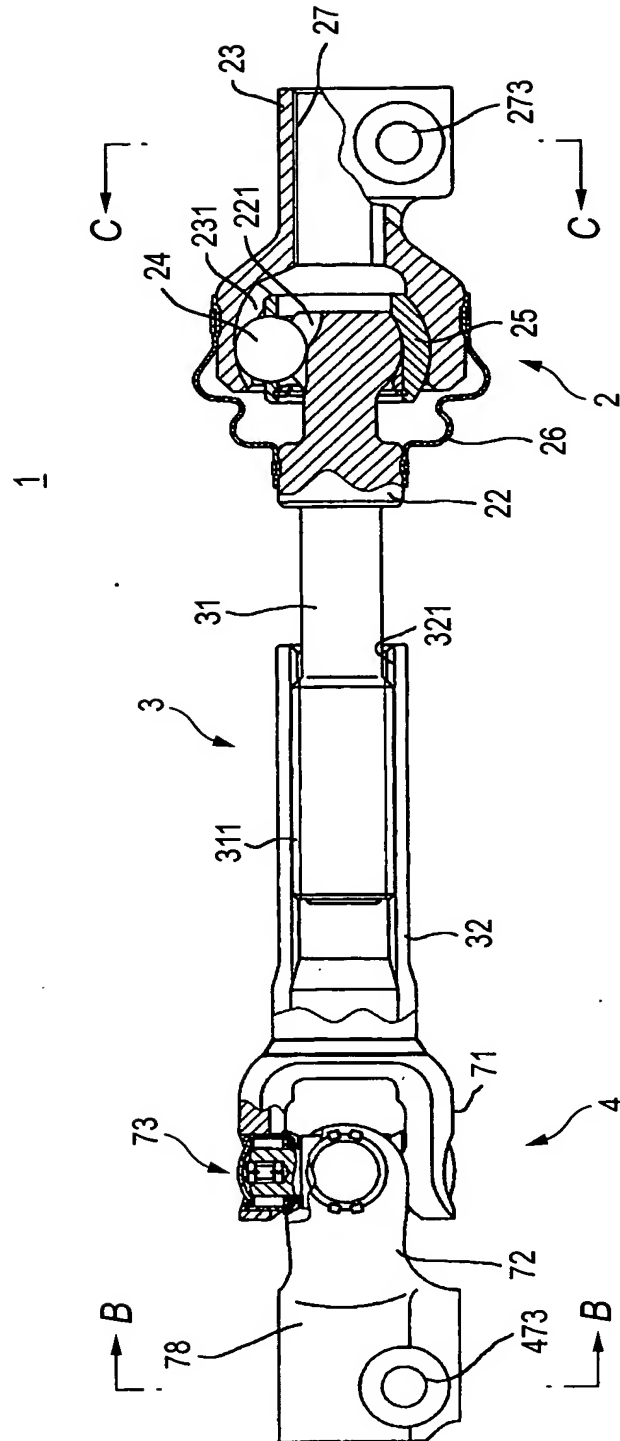
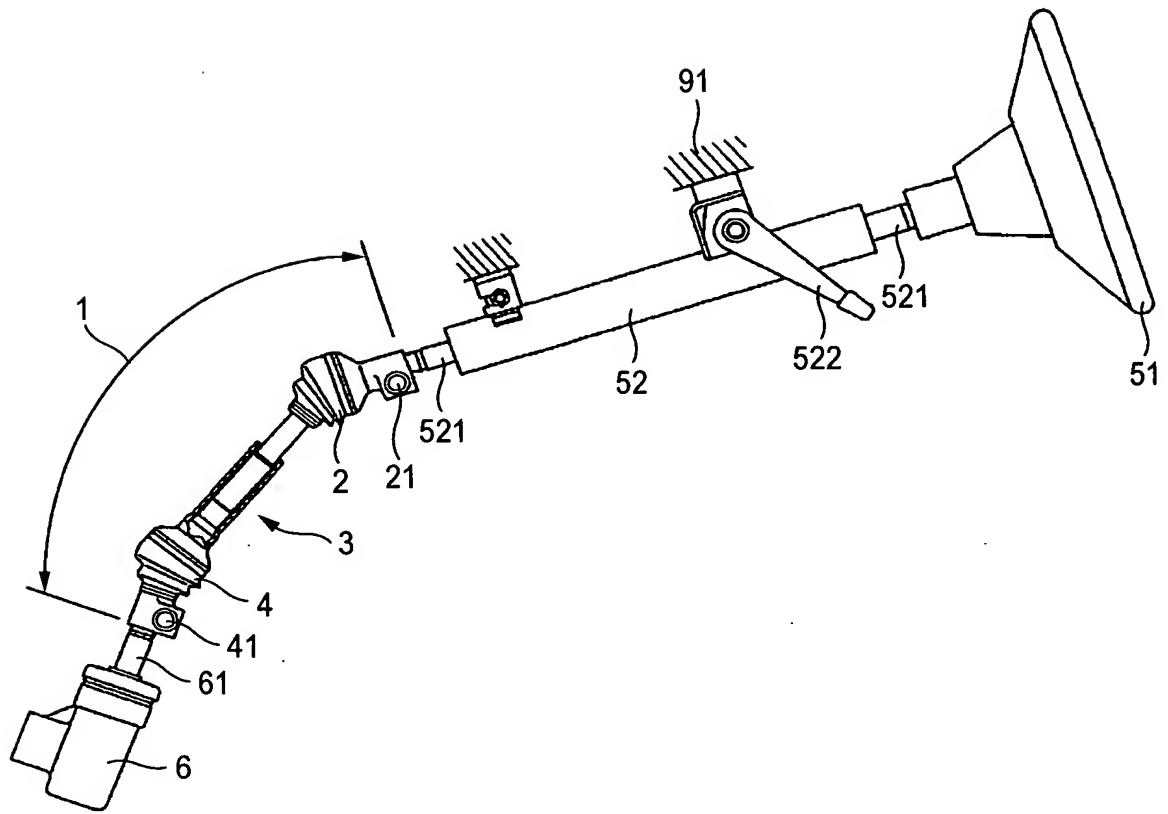


FIG. 4



**FIG. 5 (A)**

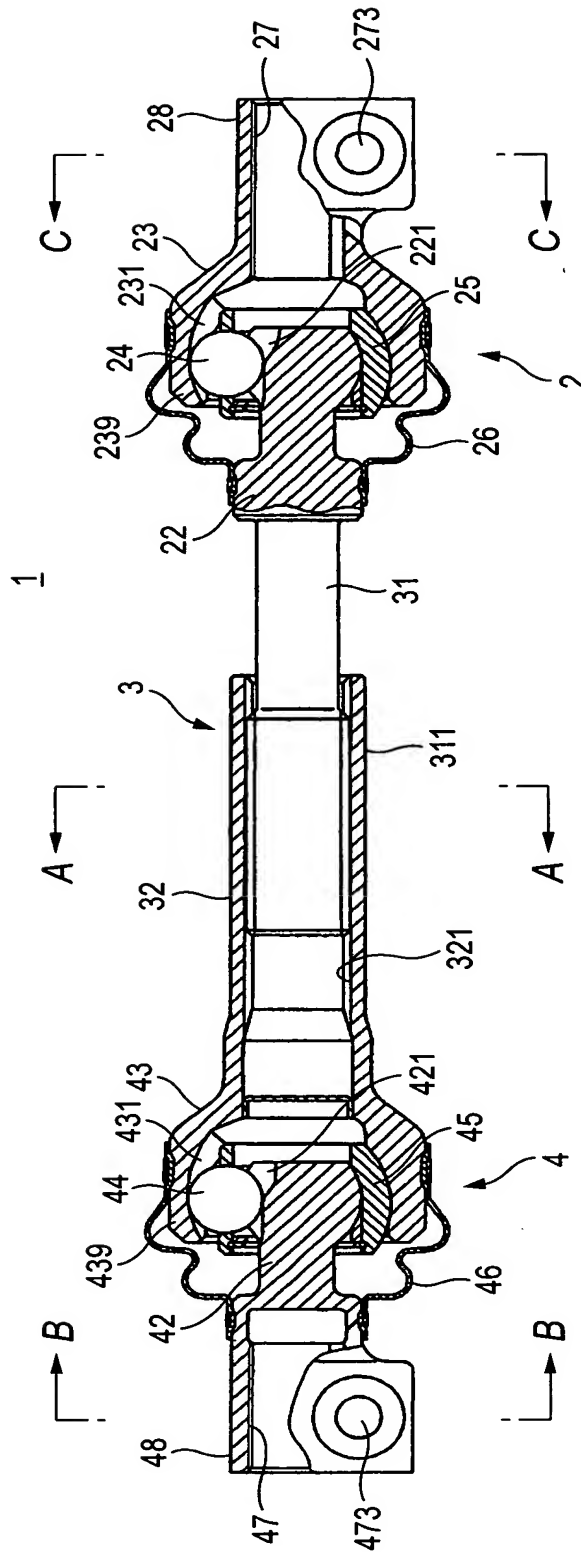


FIG. 5 (C)

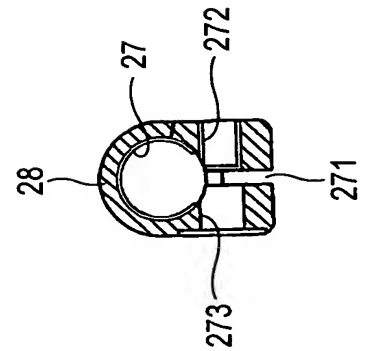
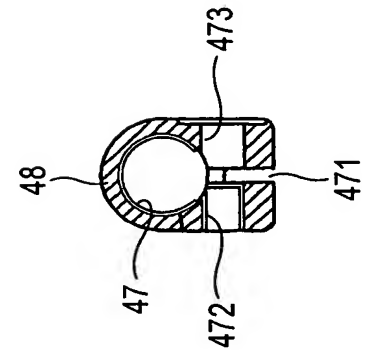


FIG. 5(B)



6/9

FIG. 6

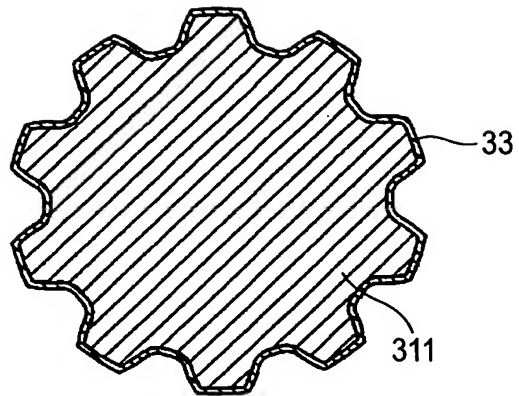


FIG. 7

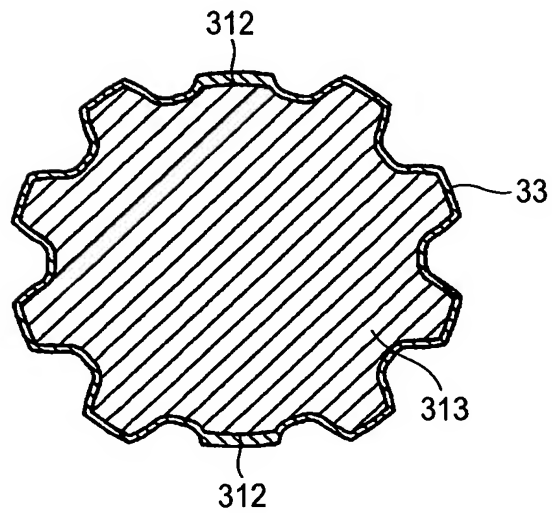
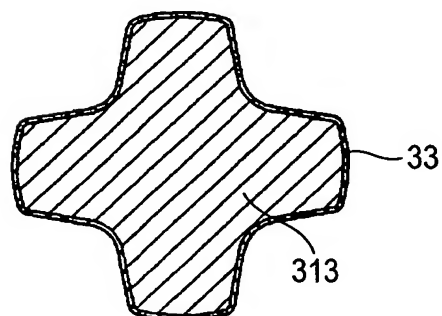
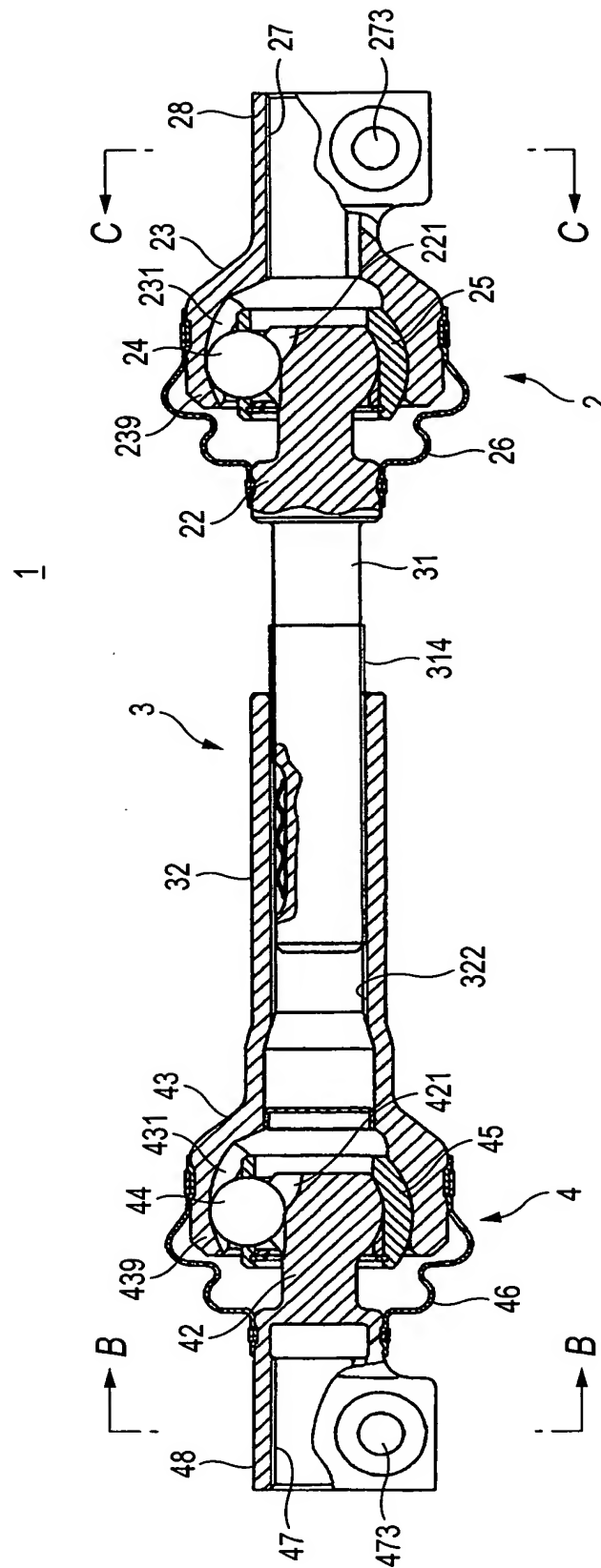


FIG. 8



**FIG. 9**



8/9

*FIG. 10*

